

Ka-Band Earth Station – Anderson, TX.

Frequency Coordination Report

28 GHz



Prepared on Behalf of
**SPACE EXPLORATION
HOLDINGS**

July 20, 2026



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1. Summary of Results

On behalf of SPACE EXPLORATION HOLDINGS, Comsearch performed a coordination notice under Section 25.203(c) of the FCC’s rules for all existing and proposed terrestrial licenses within the coordination contours of their proposed Ka-band earth station in Anderson, TX which will transmit at 28¹. Prior-notification letters were sent to the licensees and a copy of the notification data is provided in section four of this report. The earth station coordination was finalized on July 20, 2026.

There are no unresolved objections from any of the incumbent 28 GHz licensees.

2. 28 GHz Common Carrier and LTTS Coordination

In accordance with FCC Rules and Regulations, the Ka-band earth station in Anderson, TX was prior-coordinated by Comsearch. A notification letter and datasheets for this earth station were sent to the following 28 GHz common carrier fixed microwave licensees. These licensees are authorized to operate temporary fixed operations from 27.5 – 29.5 GHz on a nationwide basis or local basis.

Licensee	Authorized Geographic Area
None Identified	

A notification letter and datasheets for the Ka-band earth station in Anderson, TX were also sent to the following 28 GHz LTTS licensee. This licensee is authorized to operate temporary fixed operations from 29.1 – 29.25 GHz on a market basis.

Licensee	Authorized Geographic Area
None Identified	

No objections were received from the common carrier or LTTS incumbents.

¹ The proposed earth station will operate in the 27.5 – 29.1 GHz & 29.5 – 30.0 GHz portion of the Ka-Band

3. 28 GHz UMFUS Coordination

There were four 28 GHz UMFUS licensees identified within the coordination distance of the proposed earth station. The proposed earth station will operate on frequencies that overlap portions of the UMFUS service which includes the following frequency ranges:

27.5 GHz – 27.925 GHz
27.925 GHz – 28.350 GHz

Licensee	Authorized Geographic Area
GeoLinks	Market Based
Windstream	Market Based
T-Mobile	Market Based
Verizon	Market Based

There were no objections from the UMFUS incumbents within the coordination distance at the end of the coordination period.



4. Earth Station Coordination Data

This section presents the data pertinent to the proposed Ka-band earth station in Anderson, TX. This data was circulated to all incumbent licensees in the shared 28 GHz frequency ranges.

SPACE EXPLORATION HOLDINGS
Ka-Band Earth Station – Anderson, TX
Frequency Coordination Report
28 GHz

Date: 06/26/2026
Job Number: 260626COMSGE01

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ANDERSON, TX
Venue Name: TERAFAFAB CGW
Latitude (NAD 83): 30° 36' 27.6" N
Longitude (NAD 83): 96° 1' 31.2" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 112.39 m / 368.7 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 6
Modulation: Digital
Minimum Elevation Angle: 25.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Manufacturer:
Model:
Gain / Diameter:
3-dB / 15-dB Beamwidth:

Receive - FCC32

SpaceX
1.47 meter
46.9 dBi / 1.5 m
0.77° / 1.70°

Transmit - FCC32

SpaceX
1.47 meter
49.5 dBi / 1.5 m
0.49° / 1.17°

Max Available RF Power (dBW/4 kHz)
(dBW/MHz)

-39.8
-15.8

Maximum EIRP (dBW/4 kHz)
(dBW/MHz)

9.7
33.7

Interference Objectives: Long Term -156.0 dBW/MHz 20%
Short Term -146.0 dBW/MHz 0.01%

-151.0 dBW/4 kHz 20%
-128.0 dBW/4 kHz 0.0025%

Frequency Information

Receive 18.0 GHz

Emission / Frequency Range (MHz)
60M0D7W - 480MD7W / 17800.0 - 18600.0
60M0D7W - 480MD7W / 18800.0 - 19300.0

Transmit 28.0 GHz

60M0D7W - 480MD7W / 27500.0 - 29100.0
60M0D7W - 480MD7W / 29500.0 - 30000.0

Max Great Circle Coordination Distance: 225.0 km / 139.8 mi
Precipitation Scatter Contour Radius: 100.0 km / 62.1 mi

100.0 km / 62.1 mi
100.0 km / 62.1 mi

SPACE EXPLORATION HOLDINGS
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28 GHz

Coordination Values		ANDERSON, TX				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		30° 36' 27.6" N				
Longitude (NAD 83)		96° 1' 31.2" W				
Ground Elevation (AMSL)		112.39 m / 368.7 ft				
Antenna Centerline (AGL)		1.7 m / 5.6 ft				
Antenna Model		SpaceX 1.47 meter				
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz		
Interference Objectives:		Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%
		Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz	0.0025%
Max Available RF Power		-39.8 (dBW/4 kHz)				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.58	87.02	-10.00	225.00	-10.00	100.00
5	0.40	82.17	-10.00	225.00	-10.00	100.00
10	0.44	77.33	-10.00	225.00	-10.00	100.00
15	0.69	72.51	-10.00	225.00	-10.00	100.00
20	1.15	67.73	-10.00	225.00	-10.00	100.00
25	1.59	62.99	-10.00	225.00	-10.00	100.00
30	1.59	58.23	-10.00	225.00	-10.00	100.00
35	1.30	53.43	-10.00	225.00	-10.00	100.00
40	1.10	48.66	-10.00	225.00	-10.00	100.00
45	0.91	43.93	-10.00	225.00	-10.00	100.00
50	0.74	39.25	-10.00	225.00	-10.00	100.00
55	0.65	34.67	-10.00	225.00	-10.00	100.00
60	0.45	30.14	-10.00	225.00	-10.00	100.00
65	0.32	25.80	-10.00	225.00	-10.00	100.00
70	0.00	21.61	-10.00	225.00	-10.00	100.00
75	0.00	18.04	-10.00	225.00	-10.00	100.00
80	0.00	15.26	-10.00	225.00	-10.00	100.00
85	0.00	13.77	-10.00	225.00	-10.00	100.00
90	0.00	13.97	-10.00	225.00	-10.00	100.00
95	0.00	15.81	-10.00	225.00	-10.00	100.00
100	0.00	18.80	-10.00	225.00	-10.00	100.00
105	0.00	22.50	-10.00	225.00	-10.00	100.00
110	0.00	26.61	-10.00	225.00	-10.00	100.00
115	0.00	30.97	-10.00	225.00	-10.00	100.00
120	0.00	35.48	-10.00	225.00	-10.00	100.00
125	0.00	40.09	-10.00	225.00	-10.00	100.00
130	0.00	44.77	-10.00	225.00	-10.00	100.00
135	0.00	49.51	-10.00	225.00	-10.00	100.00
140	0.00	54.28	-10.00	225.00	-10.00	100.00
145	0.00	59.07	-10.00	225.00	-10.00	100.00
150	0.00	63.89	-10.00	225.00	-10.00	100.00
155	0.00	68.72	-10.00	225.00	-10.00	100.00
160	0.00	73.56	-10.00	225.00	-10.00	100.00
165	0.00	78.41	-10.00	225.00	-10.00	100.00
170	0.00	83.27	-10.00	225.00	-10.00	100.00
175	0.00	88.13	-10.00	225.00	-10.00	100.00
180	0.00	92.99	-10.00	225.00	-10.00	100.00
185	0.00	97.84	-10.00	225.00	-10.00	100.00

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Coordination Values		ANDERSON, TX				
Licensee Name		SpaceX Services, Inc				
Latitude (NAD 83)		30° 36' 27.6" N				
Longitude (NAD 83)		96° 1' 31.2" W				
Ground Elevation (AMSL)		112.39 m / 368.7 ft				
Antenna Centerline (AGL)		1.7 m / 5.6 ft				
Antenna Model		SpaceX 1.47 meter				
Antenna Mode		Receive 18.0 GHz		Transmit 28.0 GHz		
Interference Objectives: Long Term		-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz	20%	
		Short Term	0.01%	-128.0 dBW/4 kHz	0.0025%	
Max Available RF Power		-39.8 (dBW/4 kHz)				
Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
190	0.00	102.70	-10.00	225.00	-10.00	100.00
195	0.00	107.55	-10.00	225.00	-10.00	100.00
200	0.00	112.39	-10.00	225.00	-10.00	100.00
205	0.00	117.22	-10.00	225.00	-10.00	100.00
210	0.00	122.03	-10.00	225.00	-10.00	100.00
215	0.00	126.82	-10.00	225.00	-10.00	100.00
220	0.00	131.58	-10.00	225.00	-10.00	100.00
225	0.00	136.31	-10.00	225.00	-10.00	100.00
230	0.00	140.98	-10.00	225.00	-10.00	100.00
235	0.00	145.57	-10.00	225.00	-10.00	100.00
240	0.30	149.92	-10.00	225.00	-10.00	100.00
245	0.00	154.36	-10.00	225.00	-10.00	100.00
250	0.00	158.39	-10.00	225.00	-10.00	100.00
255	0.00	161.96	-10.00	225.00	-10.00	100.00
260	0.29	164.48	-10.00	225.00	-10.00	100.00
265	0.00	166.23	-10.00	225.00	-10.00	100.00
270	0.23	165.80	-10.00	225.00	-10.00	100.00
275	0.56	163.71	-10.00	225.00	-10.00	100.00
280	0.66	160.72	-10.00	225.00	-10.00	100.00
285	0.53	157.18	-10.00	225.00	-10.00	100.00
290	0.77	153.01	-10.00	225.00	-10.00	100.00
295	0.58	148.80	-10.00	225.00	-10.00	100.00
300	0.55	144.33	-10.00	225.00	-10.00	100.00
305	0.65	139.72	-10.00	225.00	-10.00	100.00
310	1.16	134.93	-10.00	225.00	-10.00	100.00
315	1.45	130.18	-10.00	225.00	-10.00	100.00
320	1.93	125.36	-10.00	225.00	-10.00	100.00
325	1.93	120.63	-10.00	225.00	-10.00	100.00
330	1.68	115.90	-10.00	225.00	-10.00	100.00
335	1.34	111.14	-10.00	225.00	-10.00	100.00
340	0.93	106.37	-10.00	225.00	-10.00	100.00
345	0.20	101.58	-10.00	225.00	-10.00	100.00
350	0.36	96.72	-10.00	225.00	-10.00	100.00
355	0.33	91.87	-10.00	225.00	-10.00	100.00



5. Contact Information

For questions or information regarding the Ka, Q/V-band Frequency Coordination Report, please contact:

Contact person:	Gary Edwards
Title:	Senior Manager, Satellite Services
Company:	Comsearch
Address:	21515 Ridgetop Circle, Suite 300, Sterling, VA 20166
Telephone:	703-726-5662
Email:	GEdwards@Comsearch.com
Web site:	www.comsearch.com

FREQUENCY COORDINATION AND INTERFERENCE ANALYSIS REPORT

Prepared for
SpaceX Services, Inc
ANDERSON, TX
Satellite Earth Station

Prepared By:
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166
July 20, 2026

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1. CONCLUSIONS

An interference study considering all existing, proposed and prior coordinated microwave facilities within the coordination contours of the proposed earth station demonstrates that this site will operate satisfactorily with the common carrier microwave environment. Further, there will be no restrictions of its operation due to interference considerations.

2. SUMMARY OF RESULTS

A number of great circle interference cases were identified during the interference study of the proposed earth station. Each of the cases, which exceeded the interference objective on a line-of-sight basis, was profiled and the propagation losses estimated using NBS TN101 (Revised) techniques. The losses were found to be sufficient to reduce the signal levels to acceptable magnitudes in every case.

3. SUPPLEMENTAL SHOWING

Pursuant to Part 25.203(c) of the FCC Rules and Regulations, the satellite earth station proposed in this application was coordinated by Comsearch using computer techniques and in accordance with Part 25 of the FCC Rules and Regulations.

Coordination data for this earth station was sent to the below listed carriers with a letter dated 06/22/2026.

Company

3rd Coast Internet
AMA Communications, LLC
AMG Technology Investment Group LLC
AT&T Mobility Spectrum LLC - North Texas
AT&T Mobility Spectrum LLC - South Texas
AT&T Mobility of Galveston, LLC
Air Canopy Internet Services, Inc.
Alvin Independent School District
Austin Independent School District
BNSF Railway Company
Baytown, City of
Business Only Broadband, LLC
Cedar Park, City of
Cellco Partnership - Texas
Cellco Partnership -Texas/Houston GC
Cellco Partnership-C TX/LA/AR/OK
Chambers, County of
Chevron Phillips Chemical Company LP
City of Belton
City of Cedar Park TX
City of Harker Heights
City of Houston
City of Leander
City of Pflugerville
City of Round Rock
City of Sugar Land, Texas
Digitex.com
Dish Wireless LLC
Dow Hydrocarbons and Resources LLC
ECTISP Inc.
East Texas Electric Cooperative, Inc
Electronic Corporate Pages, Inc.
Elgin Independent School District
Emmis Austin Radio Broadcasting
EnerMuscle Marketing, LLC
Enterprise Products Operating, LLC
Evolve Cellular Inc
Faith Communications LLC
Firefly Aerospace
Formosa Plastics Corporation

Graham Media Group, Houston, Inc
Gray Television Licensee, LLC
Guadalupe Valley Electric Coop., Inc.
HILCO Electric Cooperative, Inc.
Harris County Universal Services
Jackson Electric Cooperative, Inc.
Jefferson, County Of (TX)
KN Telecommunications, Inc.
KVUE Television Inc.
KVVH-LP Wimberley Valley Radio
KXLN License Partnership, L..P.
Kaufman County Sheriff Department
Klein Independent School District
Legacy ISP, LLC
Manor Independent School
NW Communications of Austin, Inc.
New Cingular Wireless PCS LLC - N Texas
New Cingular Wireless PCS LLC - S Texas
Nexstar Media Inc.
Olympic Wireless, LLC
One Ring Networks, Inc.
PB Wireless Asset Entity, LLC
Pacific Communications
RTA America, Inc
Radio One Licenses, LLC
Resound Networks
Silvers, Neal
Skynet Communications (Houston)
South East Texas Regional Planning Com
Southern Broadband LLC
Spring Brach Independent School District
T-Mobile MW LLC
Targa Midstream Services LLC
Texas New Mexico Power Company
Texas RSA 7B3, LLC
Towerstream Corp.
Travis County ESD No 12
Travis County Water District No 17
USFon, Inc.
Union Pacific Railroad Company
VGI Technology
VGI Technology, Inc
VTX Communications LLC
Venture Global Calcasieu Pass, LLC
Verizon Wireless (VAW) LLC - Texas
Wiline Spectrum Holdings LLC
Zero2 Wireless

4. EARTH STATION COORDINATION DATA

This section presents the data pertinent to frequency coordination of the proposed earth station that was circulated to all carriers within its coordination contours.

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Date: 06/26/2026
Job Number: 260626COMSGE01

Administrative Information

Status: ENGINEER PROPOSAL
Call Sign:
Licensee Code: SPACEX
Licensee Name: SpaceX Services, Inc

Site Information

ANDERSON, TX
Venue Name: TERAFAF CGW
Latitude (NAD 83): 30° 36' 27.6" N
Longitude (NAD 83): 96° 1' 31.2" W
Climate Zone: A
Rain Zone: 2
Ground Elevation (AMSL): 112.39 m / 368.7 ft

Link Information

Satellite Type: Low Earth Orbit
Mode: TR - Transmit-Receive
Antenna Count: 6
Modulation: Digital
Minimum Elevation Angle: 25.0°
Azimuth Range: 0.0° to 360°
Antenna Centerline (AGL): 1.7 m / 5.6 ft

Antenna Information

Antenna Information		Receive - FCC32		Transmit - FCC32	
Manufacturer		SpaceX		SpaceX	
Model		1.47 meter		1.47 meter	
Gain / Diameter		46.9 dBi / 1.5 m		49.5 dBi / 1.5 m	
3-dB / 15-dB Beamwidth		0.77° / 1.70°		0.49° / 1.17°	
Max Available RF Power	(dBW/4 kHz)			-39.8	
	(dBW/MHz)			-15.8	
Maximum EIRP	(dBW/4 kHz)			9.7	
	(dBW/MHz)			33.7	
Interference Objectives:	Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%	
	Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%	

Frequency Information

Frequency Information	Receive 18.0 GHz	Transmit 28.0 GHz
Emission / Frequency Range (MHz)	60M0D7W - 480MD7W / 17800.0 - 18600.0 60M0D7W - 480MD7W / 18800.0 - 19300.0	60M0D7W - 480MD7W / 27500.0 - 29100.0 60M0D7W - 480MD7W / 29500.0 - 30000.0

Max Great Circle Coordination Distance	225.0 km / 139.8 mi	100.0 km / 62.1 mi
Precipitation Scatter Contour Radius	100.0 km / 62.1 mi	100.0 km / 62.1 mi

COMSEARCH

Earth Station Data Sheet

19700 Janelia Farm Boulevard, Ashburn, VA 20147
(703)726-5500 <http://www.comsearch.com>

Coordination Values

ANDERSON, TX

Licensee Name SpaceX Services, Inc
Latitude (NAD 83) 30° 36' 27.6" N
Longitude (NAD 83) 96° 1' 31.2" W
Ground Elevation (AMSL) 112.39 m / 368.7 ft
Antenna Centerline (AGL) 1.7 m / 5.6 ft
Antenna Model SpaceX 1.47 meter
Antenna Mode Receive 18.0 GHz Transmit 28.0 GHz
Interference Objectives: Long Term -156.0 dBW/MHz 20% -151.0 dBW/4 kHz 20%
Short Term -146.0 dBW/MHz 0.01% -128.0 dBW/4 kHz 0.0025%
Max Available RF Power -39.8 (dBW/4 kHz)

Azimuth (°)	Horizon Elevation (°)	Antenna Discrimination (°)	Receive 18.0 GHz		Transmit 28.0 GHz	
			Horizon Gain (dBi)	Coordination Distance (km)	Horizon Gain (dBi)	Coordination Distance (km)
0	0.58	87.02	-10.00	225.00	-10.00	100.00
5	0.40	82.17	-10.00	225.00	-10.00	100.00
10	0.44	77.33	-10.00	225.00	-10.00	100.00
15	0.69	72.51	-10.00	225.00	-10.00	100.00
20	1.15	67.73	-10.00	225.00	-10.00	100.00
25	1.59	62.99	-10.00	225.00	-10.00	100.00
30	1.59	58.23	-10.00	225.00	-10.00	100.00
35	1.30	53.43	-10.00	225.00	-10.00	100.00
40	1.10	48.66	-10.00	225.00	-10.00	100.00
45	0.91	43.93	-10.00	225.00	-10.00	100.00
50	0.74	39.25	-10.00	225.00	-10.00	100.00
55	0.65	34.67	-10.00	225.00	-10.00	100.00
60	0.45	30.14	-10.00	225.00	-10.00	100.00
65	0.32	25.80	-10.00	225.00	-10.00	100.00
70	0.00	21.61	-10.00	225.00	-10.00	100.00
75	0.00	18.04	-10.00	225.00	-10.00	100.00
80	0.00	15.26	-10.00	225.00	-10.00	100.00
85	0.00	13.77	-10.00	225.00	-10.00	100.00
90	0.00	13.97	-10.00	225.00	-10.00	100.00
95	0.00	15.81	-10.00	225.00	-10.00	100.00
100	0.00	18.80	-10.00	225.00	-10.00	100.00
105	0.00	22.50	-10.00	225.00	-10.00	100.00
110	0.00	26.61	-10.00	225.00	-10.00	100.00
115	0.00	30.97	-10.00	225.00	-10.00	100.00
120	0.00	35.48	-10.00	225.00	-10.00	100.00
125	0.00	40.09	-10.00	225.00	-10.00	100.00
130	0.00	44.77	-10.00	225.00	-10.00	100.00
135	0.00	49.51	-10.00	225.00	-10.00	100.00
140	0.00	54.28	-10.00	225.00	-10.00	100.00
145	0.00	59.07	-10.00	225.00	-10.00	100.00
150	0.00	63.89	-10.00	225.00	-10.00	100.00
155	0.00	68.72	-10.00	225.00	-10.00	100.00
160	0.00	73.56	-10.00	225.00	-10.00	100.00
165	0.00	78.41	-10.00	225.00	-10.00	100.00
170	0.00	83.27	-10.00	225.00	-10.00	100.00
175	0.00	88.13	-10.00	225.00	-10.00	100.00
180	0.00	92.99	-10.00	225.00	-10.00	100.00
185	0.00	97.84	-10.00	225.00	-10.00	100.00

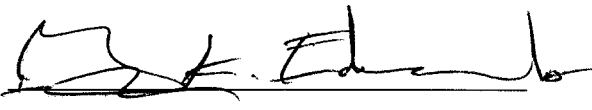
Earth Station Data Sheet

Coordination Values		ANDERSON, TX	
Licensee Name	SpaceX Services, Inc		
Latitude (NAD 83)	30° 36' 27.6" N		
Longitude (NAD 83)	96° 1' 31.2" W		
Ground Elevation (AMSL)	112.39 m / 368.7 ft		
Antenna Centerline (AGL)	1.7 m / 5.6 ft		
Antenna Model	SpaceX 1.47 meter		
Antenna Mode	Receive 18.0 GHz		Transmit 28.0 GHz
Interference Objectives: Long Term	-156.0 dBW/MHz	20%	-151.0 dBW/4 kHz 20%
Short Term	-146.0 dBW/MHz	0.01%	-128.0 dBW/4 kHz 0.0025%
Max Available RF Power	-39.8 (dBW/4 kHz)		

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5. CERTIFICATION

I HEREBY CERTIFY THAT I AM THE TECHNICALLY QUALIFIED PERSON RESPONSIBLE FOR THE PREPARATION OF THE FREQUENCY COORDINATION DATA CONTAINED IN THIS APPLICATION, THAT I AM FAMILIAR WITH PARTS 101 AND 25 OF THE FCC RULES AND REGULATIONS, THAT I HAVE EITHER PREPARED OR REVIEWED THE FREQUENCY COORDINATION DATA SUBMITTED WITH THIS APPLICATION, AND THAT IT IS COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

BY: 

Gary K. Edwards
Senior Manager
COMSEARCH
21515 Ridgetop Circle, Suite 300
Sterling, VA 20166

DATED: July 20, 2026